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GENERAL ELECTRIC FAN MOTORS

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1904

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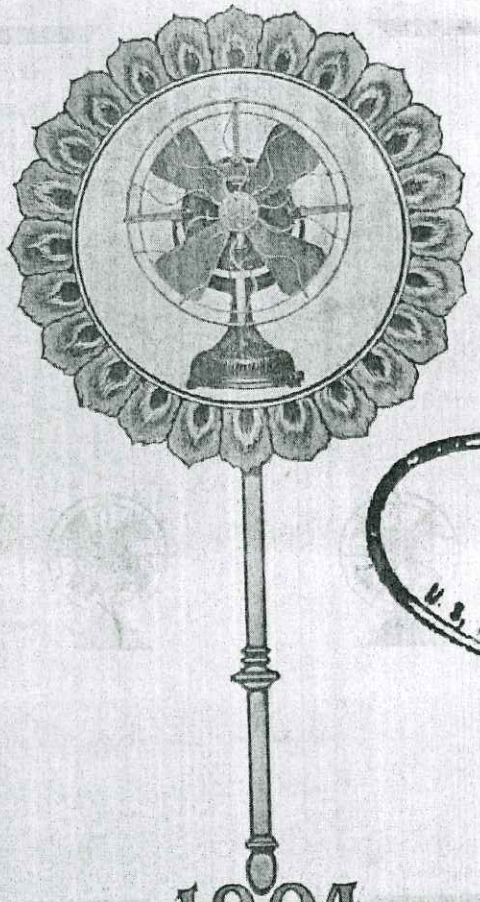
INFORMATION CENTER

GENERAL ELECTRIC FAN MOTORS



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GENERAL ELECTRIC COMPANY

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GENERAL ELECTRIC FAN MOTORS

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GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

April, 1904 No. 1123

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FAN MOTORS

Our standard line of fan motors includes the following designs and sizes:

ALTERNATING CURRENT

12-inch Fans with Swivel Base Frames

12-inch Fans with Swivel and Trunnion Frames; convertible desk or wall type

16-inch Fans with Swivel and Trunnion Frames; convertible desk or wall type

DIRECT CURRENT

12-inch Fans with Solid Frames

12-inch Fans with Swivel and Trunnion Frames; convertible desk or wall type

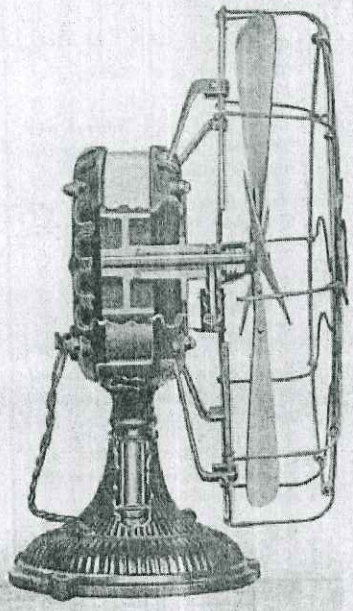
16-inch Fans with Swivel and Trunnion Frames; convertible desk or wall type

Ceiling Fans

The standard finish is black enamel for the frame, base and bracket, and lacquered brass for the fan, guard and small trimmings. The fan, guard and small trimmings will be nickel-plated, on special orders only, for 50 cents net additional to price on each motor.

These motors are electrically and mechanically the standards of modern fan motor manufacture.

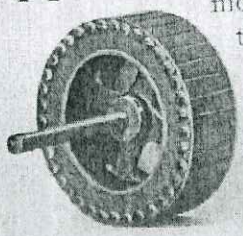
ALTERNATING CURRENT FAN MOTORS



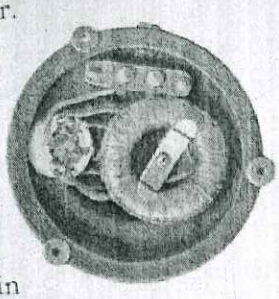
Construction of the Swivel
Frame Alternating Current Fan Motor

ALTERNATING CURRENT FAN MOTORS

AS the design of our alternating current fan motors requires no moving contacts, the construction is extremely simple. A cast iron frame, an armature of laminated soft iron, with bare copper conductors, field coils on a laminated iron field frame, and a regulating device make up the practically indestructible General Electric Alternating Current Fan Motor.



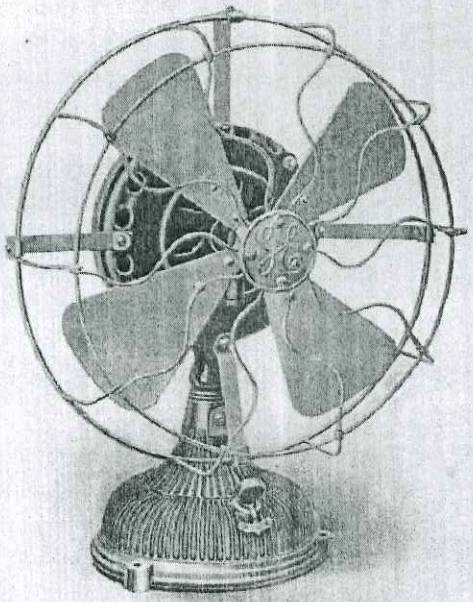
The controlling device is a six-point switch and reactive coil which allows several running speeds. This switch is located in the base of the motor frame and is operated by a projecting key. In bracket motors it is located in the bracket base. No additional switch is required, and the motor can therefore be connected directly to the circuit.



Alternating current fan motors are furnished for circuits of 60 and 125 to 140 cycles, and 52, 100 to 115 and 190 to 220 volts.

Fan motors for frequencies and voltages not included in the standard list are special and must be made to order.

ALTERNATING CURRENT
SWIVEL FRAME DESK MOTORS
TWELVE-INCH FANS



Twelve-Inch Swivel
Frame Alternating Current Fan Motor

ALTERNATING CURRENT
SWIVEL FRAME DESK MOTORS
TWELVE-INCH FANS

SPECIFICATIONS

Six-point regulating switch.

Running speeds, 900–1500 R.P.M.

Power required, full speed, 78 watts; slow speed, 45 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Motors for special cycles and voltages to order.

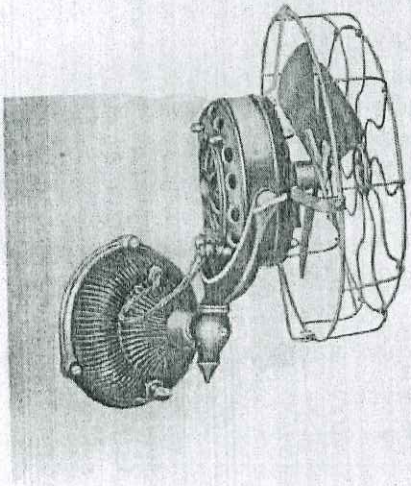
Weight, 22½ pounds.

Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

Cat. No.	Cycles	Volts	List Price
23574	60	52	$30.00
23575	60	100–115	30.00
23576	60	190–220	32.50
23577	125–140	52	30.00
23578	125–140	100–115	30.00
23579	125–140	190–220	32.50

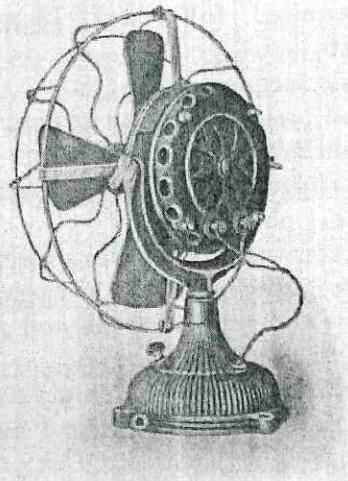
ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS



Twelve-inch Swivel and Trunnion Frame
Alternating Current Fan Motor, Convertible Type

For specifications and prices see page 12

ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS



Twelve-inch Swivel and Trunnion Frame
Alternating Current Fan Motor, Convertible Type

For specifications and prices see page 12

ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS

SPECIFICATIONS

Six-point regulating switch.

Running speeds, 900–1500 R.P.M.

Power required, full speed, 78 watts; slow peed, 45 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Motors for special cycles and voltages to order.

Weight, 23½ pounds.

Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

Adapter, Cat. No. 23562, must be ordered separately in order to convert these motors into wall motors. Weight, 1 pound. List price, $1.25.

Cat. No.	Cycles	Volts	List Price
23580	60	52	$32.00
23581	60	100–115	32.00
23582	60	190–220	34.50
23583	125–140	52	32.00
23584	125–140	100–115	32.00
23585	125–140	190–220	34.50

ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS

SPECIFICATIONS

Six-point regulating switch.

Running speeds, 900 and 1570 R.P.M.

Power required, full speed, 178 watts; slow speed, 140 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Weight, 35 pounds.

Motors for special cycles and voltages to order.

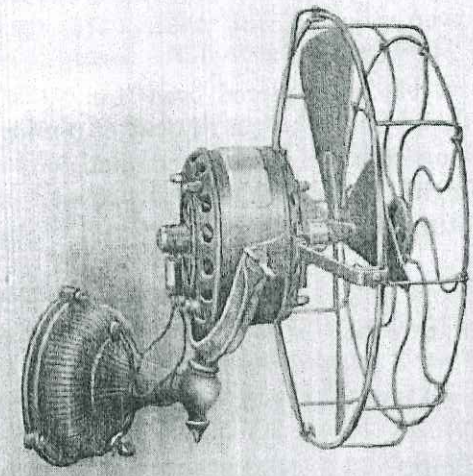
Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

Adapter, Cat. No. 23562, must be ordered separately to convert these motors into wall motors. Weight, 1 pound. List price, $1.25.

Cat. No.	Cycles	Volts	List Price
23586	60	52	$43.00
23587	60	100–115	43.00
23588	60	190–220	45.50
23589	125–140	52	43.00
23590	125–140	100–115	43.00
23591	125–140	190–220	45.50

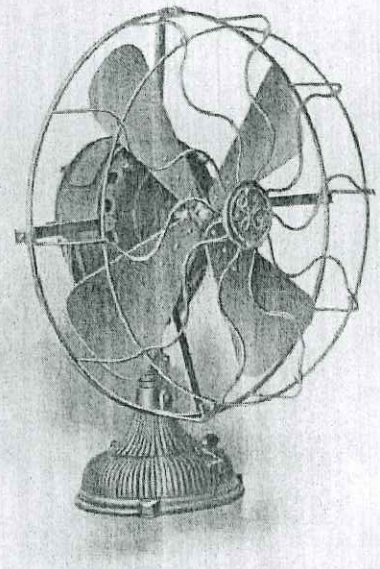
ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS



Sixteen-inch Swivel and Trunnion Frame
Alternating Current Fan Motor, Convertible Type

For specifications and prices see page 13

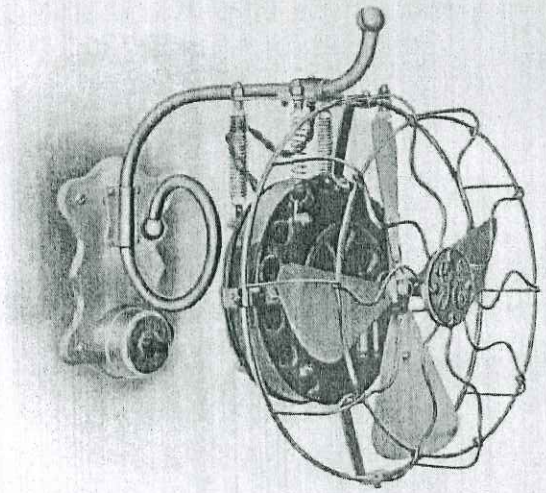
ALTERNATING CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS



Sixteen-inch Swivel and Trunnion Frame
Alternating Current Fan Motor, Convertible Type

For specifications and prices see page 13

ALTERNATING CURRENT SPRING BRACKET MOTORS



With Brass Bracket

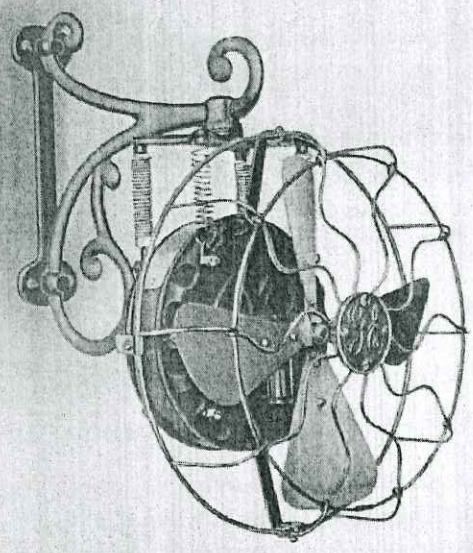
SPECIFICATIONS

These motors are designed for use on light partitions or in small compartments where only a small movement of air is required. They are practically noiseless and of especial value where quiet running is desirable. They are provided with 10″ fans. The body of the motor is suspended by coiled springs. The frame finish is black enamel, and the fan guard and trimmings are of lacquered brass.

The motor is made in two designs, as illustrated, and for 60 and 125–140 cycles and 100–115

ALTERNATING CURRENT SPRING BRACKET MOTORS

volts. Only one speed is provided, but, if desirable, speed regulators similar to those provided for exhaust fans can be furnished.



With Iron Bracket

Motor with brass bracket, complete, list price	$30.00
Motor with iron bracket, without snap switch, complete, list price . .	25.00

COMPENSATOR FOR ALTERNATING CURRENT FAN MOTORS FOR 12-INCH FANS ONLY

The alternating current compensator, manufactured by the General Electric Company, provides for the use of a 52-volt fan motor on a 104-volt circuit, or a 104-volt fan motor on a 52-volt circuit. One compensator is required for each motor. The compensator is mounted on an enameled porcelain base, 6¼″ in diameter, and is furnished with four nickel-plated binding posts, two marked "52 volts," and two marked "104 volts." One set of binding posts is for connection to the motor and the other for connection to the circuit.

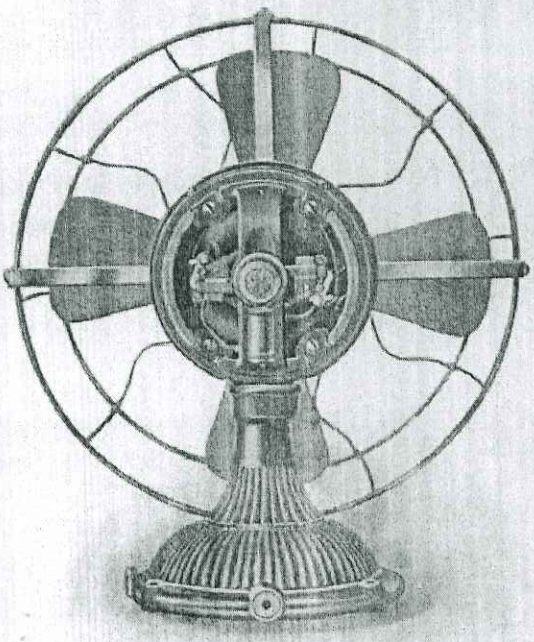
For a 104-volt motor on a 52-volt circuit, the posts marked "52 volts" are connected to the circuit. For a 52-volt motor on a 104-volt circuit, the posts marked "52 volts" are connected to the motor. The device is simple and can be readily installed by any wireman without special instructions. It is especially convenient for central stations because it enables motors to be provided for 52-volt or 104-volt circuits without regard to which of these voltages happens to be in stock.

Cat. No.	Description	List Price
3657	Fan Motor Compensator, complete, 60 cycles and upward	$9.00

DIRECT CURRENT

FAN MOTORS

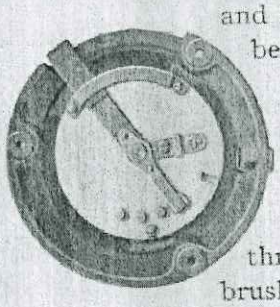
DIRECT CURRENT FAN MOTORS

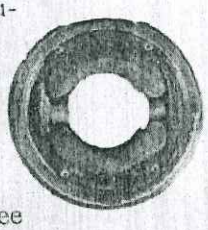


Construction of the
Direct Current
Fan Motor

DIRECT CURRENT FAN MOTORS

Our direct current fan motors have elliptical bodies. The bearings are carefully proportioned and lubricated. Oil is fed to the bearings by a wick pressed against the shaft by a light spring. The brush-holders have an ingenious device which exerts a constant pressure on the commutator throughout the life of the brush. The rectangular brushes wear evenly and cannot turn so as to present a sharp edge to the commutator. All parts have been designed with special reference to durability and high efficiency.





All the direct current fan motors have regulating switches with four points, providing for three different speeds. The regulating resistances and switch are placed in the base of the motor.

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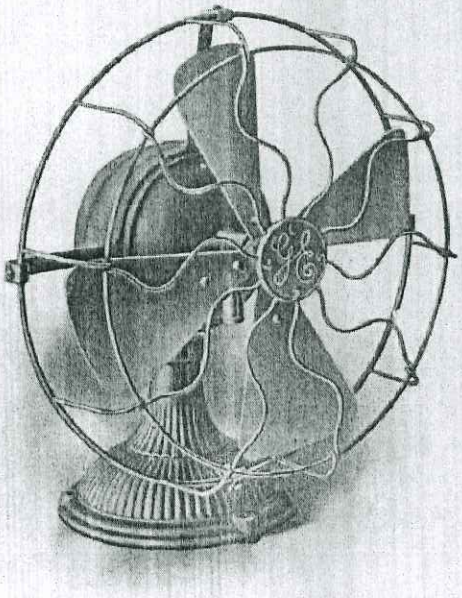
DIRECT CURRENT
SOLID FRAME DESK MOTORS
TWELVE-INCH FANS



Twelve-inch Solid Frame Direct Current
Fan Motor

DIRECT CURRENT
SOLID FRAME DESK MOTORS
TWELVE-INCH FANS

SPECIFICATIONS

Four-point regulating switch.

Three running speeds, 900, 1200 and 1600 R.P.M.

Power required, full speed, 55 watts; medium speed, 40 watts; slow speed, 32 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Weight, 21½ pounds.

Frame with removable shield, permitting examination of the commutator and carbon brushes.

Motors for 115 volts may be used on any voltage between 105 and 125.

Motors for 230 volts may be used on any voltage between 210 and 250.

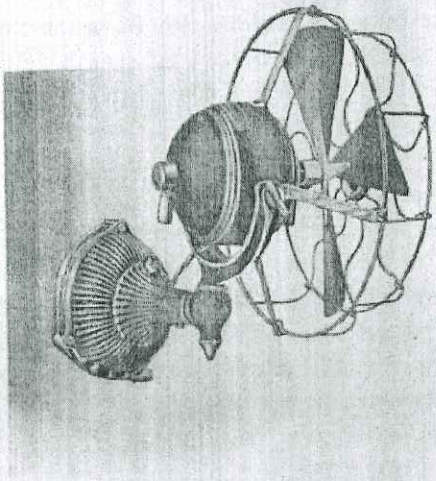
Motors for special voltages to order.

Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

Cat. No.	Volts	List Price
23564	115	$30.00
23565	230	32.50

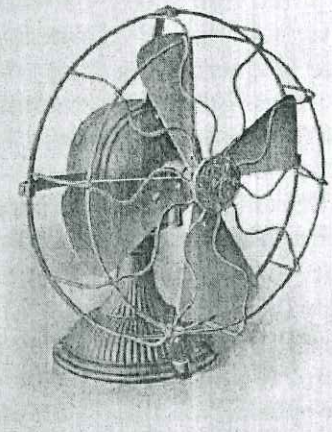
DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS



Twelve-inch Swivel and Trunnion Frame
Direct Current Fan Motor
Convertible Type

For specifications and prices see page 26

DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS



Twelve-inch Swivel and Trunnion Frame
Direct Current Fan Motors
Convertible Type

For specifications and prices see page 26

DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
TWELVE-INCH FANS

SPECIFICATIONS

Four-point regulating switch.

Three running speeds, 900, 1200 and 1600 R.P.M.

Power required, full speed, 55 watts; medium speed, 40 watts; slow speed, 32 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Weight, 21¼ pounds.

Frame with removable shield, permitting examination of the commutator and carbon brushes.

Motors for 115 volts may be used on any voltage between 105 and 125.

Motors for 230 volts may be used on any voltage between 210 and 250.

Motors for special voltages to order.

Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

To convert these motors to wall motors, angle adapter, Cat. No. 23562, must also be ordered. Weight, 1 pound. List price, $1.25.

Cat. No.	Volts	List Price
23566	115	$31.00
23567	230	33.50

DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS

SPECIFICATIONS

Four-point regulating switch.

Three running speeds, ~~900,~~ ~~1200~~ and ~~1600~~ 750, 1050 1500 R.P.M.

Power required, full speed, ~~55~~ 94 watts; medium speed, ~~40~~ 71 watts; slow speed, ~~32~~ 47 watts.

Four-blade lacquered brass fan.

Lacquered brass guard and trimmings.

Frame finished in black enamel.

Weight, ~~211 pounds~~. 32 lbs.

Frame with removable shield, permitting examination of the commutator and carbon brushes.

Motors for 115 volts may be used on any voltage between 105 and 125.

Motors for 230 volts may be used on any voltage between 210 and 250.

Motors for special voltages to order.

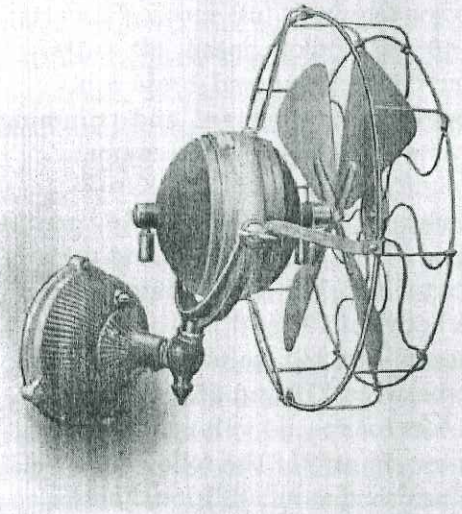
Motors in any of the following special finishes can be furnished at an additional net price of $1.50:

Royal blue and gold, wine red and gold, white and gold.

Adapter, Cat. No. 23562, must be ordered separately to convert these motors into wall motors. Weight, 1 pound. List price, $1.25.

Cat. No.	Volts	List Price
23568	115	$40.00
23569	230	42.50

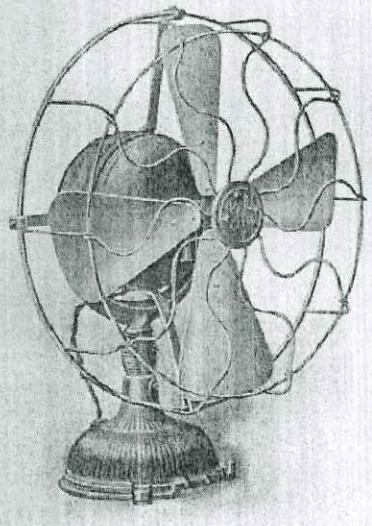
DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS



Sixteen-inch Swivel and Trunnion Frame
Desk and Wall Motor
Convertible Type

For specifications and prices see page 27

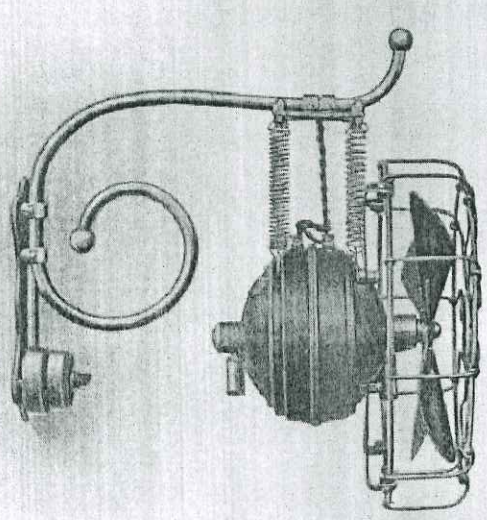
DIRECT CURRENT
SWIVEL AND TRUNNION FRAME
CONVERTIBLE DESK AND WALL MOTORS
SIXTEEN-INCH FANS



Sixteen-inch Swivel and Trunnion Frame
Desk and Wall Motor
Convertible Type

For specifications and prices see page 27

DIRECT CURRENT SPRING BRACKET FAN MOTORS



With Brass Bracket

SPECIFICATIONS

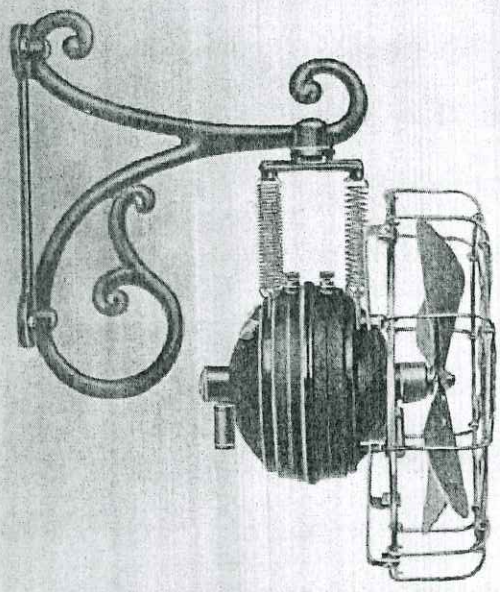
These motors are designed for use on light partitions or in small compartments where only a small movement of air is required. They are noiseless and of especial value where quiet running is desirable. They are provided with 10″ fans. The body of the motor is suspended by coiled springs. The frame is finished in black enamel. The fan guard and trimmings are of lacquered brass.

DIRECT CURRENT SPRING BRACKET FAN MOTORS

Motor is made in two designs, as illustrated.

These motors are made for 115 volts only.

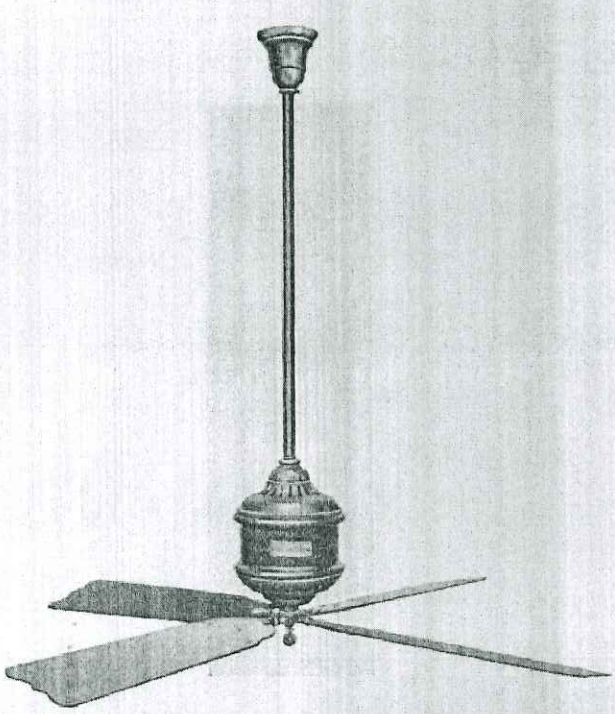
Only one speed is provided, but, if desirable, speed regulators similar to those provided for exhaust fans can be furnished.



With Iron Bracket

Motor with brass bracket, complete, list price	$30.00
Motor with iron bracket, with snap switch, complete, list price . . .	25.00

DIRECT CURRENT FAN MOTORS



58" Direct Current Ceiling
Fan Motor

DIRECT CURRENT CEILING FAN MOTORS

SPECIFICATIONS

This fan is so designed as to be adapted for installation in public or private buildings where a general circulation of air is desired.

It is equipped with four blades having a 58″ sweep, and a four-point regulating switch giving three speeds, approximately as follows: 210, 140 and 110 R.P.M.

The standard voltages are 115, 230 and 500.

Weight, complete, 59 pounds.

Air delivery, approximately 6820 cu. ft. per minute.

Unless otherwise ordered, motors 54″ in length over all will be furnished.

Motors for 115 volts may be used on any voltage from 105 to 125; motors for 230 volts may be used on any voltage from 210 to 250.

The standard finish is black enamel. Streaked oxidized copper or polished brass finish can be furnished. For these finishes add $5.00 to the following list prices:

Cat. No.	Fan	Volts	List Price
23506	4-blade	115	$55.00
23507	4-blade	230	60.00
23508	4-blade	500	70.00

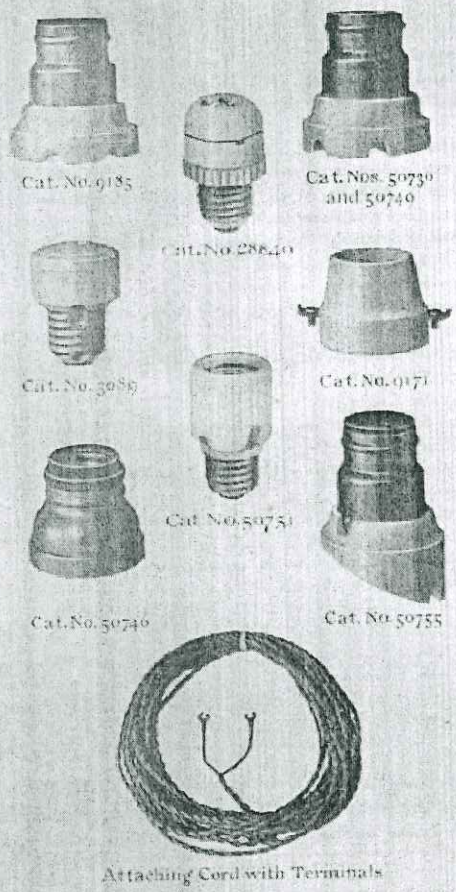
RADIAL FAN MOTORS

These fans deliver a gentle breeze horizontally in all directions, and are therefore especially suited to dining rooms or other places where the direct draft of the regular type of fan is objectionable.

The height over all is 24 inches. A six-blade fan 8 inches in diameter is used, and is protected by a suitable guard. Three speeds are possible, according to the position of the switch, the highest speed being about 2000 R.P.M. Connection to the motor is made in the usual way by means of a flexible cord. The standard finish is streaked oxidized copper. The motor is made for 115 and 230 volts direct current.

Cat. No.	Volts	List Price
29509	115	$40.00
29510	230	42.50

APPLIANCES FOR FAN MOTORS



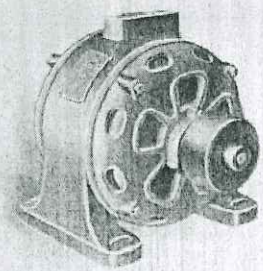
APPLIANCES FOR FAN MOTORS

Cat. No.	Description	List Price
3089	Attaching Plug, with fuse, for Edison screw sockets and receptacles	$0.22
28840	Swivel Attaching Plug for Edison screw sockets and receptacles	.30
50751	Combined Attaching Plug and Edison Screw Socket	.60
	Attaching Plug, with fuse, for Thomson–Houston sockets and receptacles	.22
	Attaching Plug, with fuse, for Westinghouse sockets and receptacles	.22
	Wall Receptacles for Edison Attaching Plugs, Nos. 3089, 28840 and 50751:	
9171	Keyless Receptacle, porcelain	.12
9185	Keyless Receptacle, with fiber lining and white porcelain base	.40
50746	Keyless Receptacle, with fiber lining and concealed base	.40
50755	Keyless Angle Receptacle, porcelain	.50
	Wall Receptacles for Thomson–Houston Attaching Plugs:	
50736	Keyless Receptacle, with fiber lining and white porcelain base	.40
50749	Keyless Receptacle, with fiber lining and chocolate colored base	.40
	Attaching Cord, No. 16 B.&S. cotton, 12 ft. long, with terminals	.55
	Attaching Cord, No. 16 B.&S. silk, 12 ft. long, with terminals	.85
	No. 16 B.&S. Cotton Attaching Cord, only, per yard	.12
	No. 16 B.&S. Silk Attaching Cord, only, per yard	.19

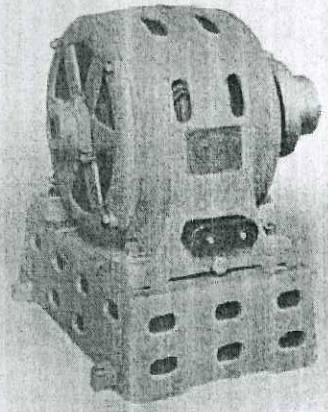
FANS AND GUARDS FOR FAN MOTORS

LACQUERED BRASS GUARD		LACQUERED BRASS FAN	
Size of Fan	List Price	Size of Fan	List Price
12″	$2.00	12″	$1.25
16″	2.75	16″	2.00

SMALL INDUCTION MOTORS FOR ALTERNATING CURRENT CIRCUITS

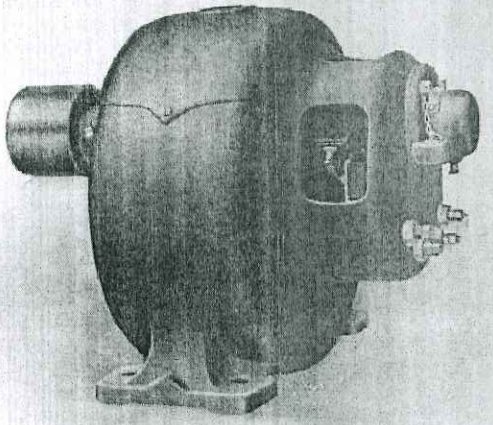


$\frac{1}{4}$ and $\frac{1}{2}$ H.P., 60 cycle, 110 and 220 volt hand and self-starting motors, single-phase. Also $\frac{1}{4}$ and $\frac{1}{2}$ H.P., two and three-phase, 60 cycles.



1, 2, 3, 5, $7\frac{1}{2}$, 10 and 15 H.P., 110 and 220 volt self-starting motors, 60 cycle, single-phase. Condensers contained in sub-bases.

CA MOTORS FOR DIRECT CURRENT CIRCUITS



CA Motor, Form B

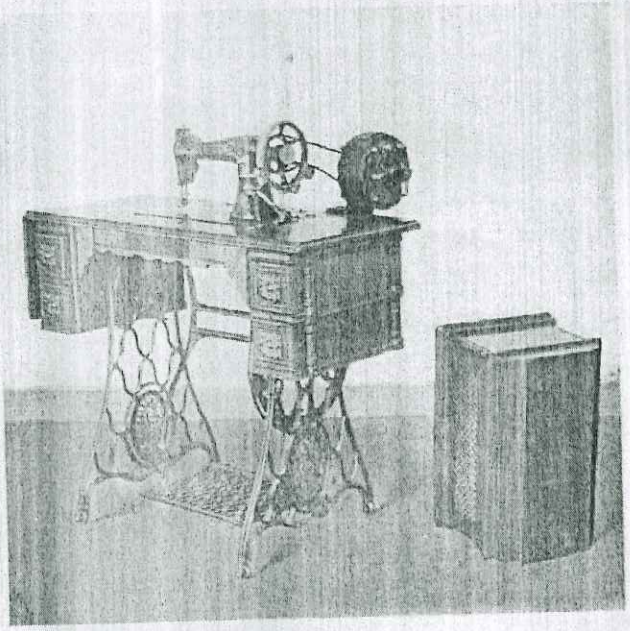
SIX SIZES: $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1 and 2 Horse-power

GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

SEWING MACHINE MOTOR OUTFITS

For 115 and 230 Volts, Direct Current, and 52, 110 and 220 Volts, 60 or 125 Cycles, Alternating Current



Sewing Machine with Motor Outfit

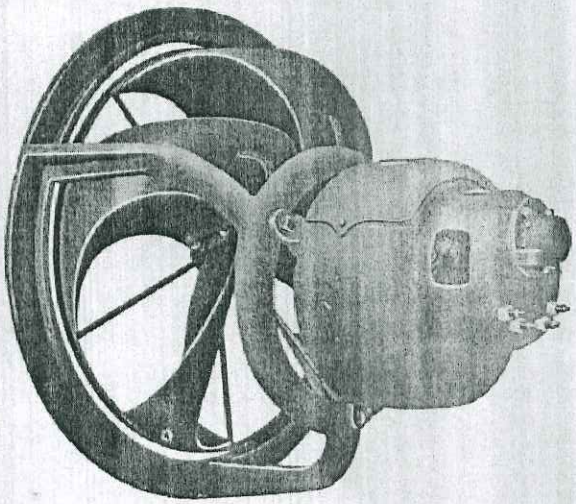
Adapted to all
Standard Sewing Machines

GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

ELECTRIC VENTILATING OUTFITS

For all manner of ventilating purposes in public and business buildings, for the removal of moist air from rooms in which lumber, cloth, paper, tobacco or other articles of merchandise are being



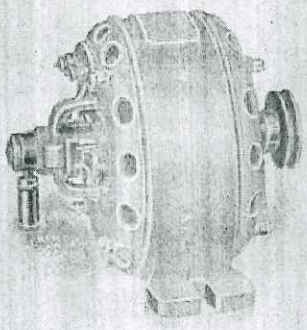
Electric Ventilating Outfit

dried, and for the circulation of air over heated or cooled pipe coils for maintaining equable temperature in assembly rooms or apartments.

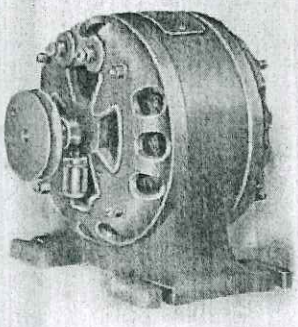
GENERAL ELECTRIC COMPANY

SCHENECTADY, N. Y.

ONE-TENTH H.P. MOTORS



Direct Current



Alternating Current

$\frac{1}{10}$ H.P. Motors

This motor is adapted to the operation of jewelers' lathes, small grinders, etc. The alternating current motor is self-starting under full load, the armature being free to move upon the shaft until nearly full speed is attained, when a centrifugal clutch locks the armature and shaft together. The standard finish is black japan with nickel trimmings.

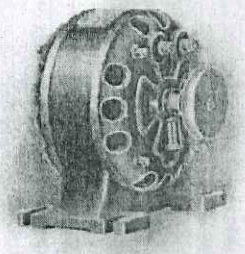
$\frac{1}{10}$ H.P. SINGLE-PHASE ALTERNATING CURRENT MOTORS

Cat. No.	Cycles	Volts	Speed	List Price
32063	60	110	1800	$47.00
32065	60	220	1800	50.00
32062	125	110	1875	47.00
32064	125	220	1875	50.00

$\frac{1}{10}$ H.P. DIRECT CURRENT MOTORS

Cat. No.	Winding	Volts	Speed	List Price
27683	Shunt	115	1500	$34.00
27684	Shunt	230	1500	36.00
27685	Series	115	1500	34.00
27686	Series	230	1500	36.00

ONE-FIFTEENTH H.P. MOTORS



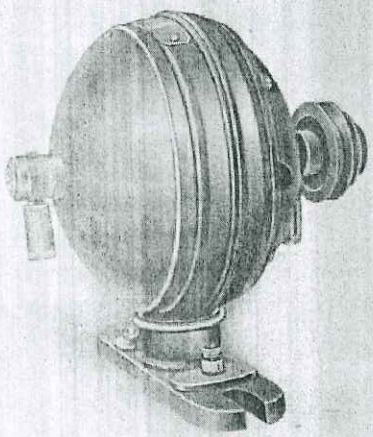
$\frac{1}{15}$ H.P. Alternating Current Motor

These motors were designed to operate automatic musical instruments, and are also suitable for any light power purposes. The alternating current motor is provided with a centrifugal clutch for starting. It is a simple arrangement within the armature which grips the shaft when a predetermined speed has been reached by the armature. The standard finish is black japan with nickel trimmings.

$\frac{1}{15}$ H.P. ALTERNATING CURRENT MOTORS

Cat. No.	Cycles	Volts	Speed	List Price
29560	60	110	1800	$38.00
31799	60	220	1800	40.00
29561	125	110	1875	38.00
31806	125	220	1875	40.00

ONE-FIFTEENTH H.P. MOTORS



$\frac{1}{15}$ H.P. Direct Current Motor

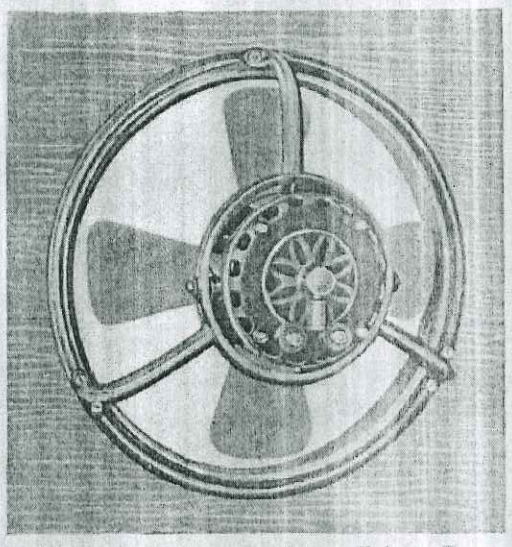
The direct current motor is provided with either series or shunt winding. The latter will be furnished unless otherwise specified.

The standard finish is black japan with nickel trimmings.

$\frac{1}{15}$ H.P. DIRECT CURRENT MOTORS

Cat. No.	Winding	Volts	Speed	List Price
23520	Shunt	115	1800	$28.00
26360	Series	115	2200	28.00
31798	Series	230	2200	30.00

VENTILATING FAN MOTORS



Sixteen-Inch Alternating Current Exhaust Fan

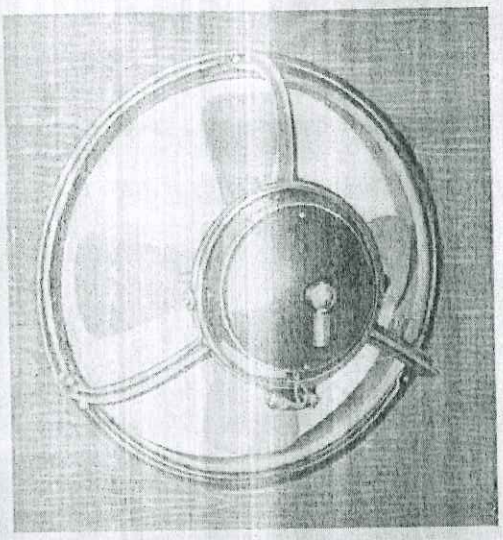
ALTERNATING CURRENT OUTFITS

Cat. No.	Diam. Fan	Cycles	Volts	Watts	List Price
23592	12″	60	100–115	64	$24.00
23593	12″	60	190–220	78	24.00
23594	12″	125–140	100–115	72	24.00
23595	12″	125–140	190–220	84	24.00
23596	16″	60	100–115	153	30.00
23597	16″	60	190–220	178	30.00
23598	16″	125–140	100–115	143	30.00
23599	16″	125–140	190–220	178	30.00

SPEED CONTROLLERS FOR ALTERNATING CURRENT MOTORS

Cat. No.	Diam. Fan	Cycles	Volts	List Price
28604	12″	60	100–115	$3.50
26376	12″	60	190–220	3.50
28606	12″	125–140	100–115	3.50
28607	12″	125–140	190–220	3.50
28608	16″	60	100–115	4.00
26381	16″	60	190–220	4.00
28610	16″	125–140	100–115	4.00
28611	16″	125–140	190–220	4.00

VENTILATING FAN MOTORS



Sixteen-Inch Direct Current Exhaust Fan

DIRECT CURRENT OUTFITS

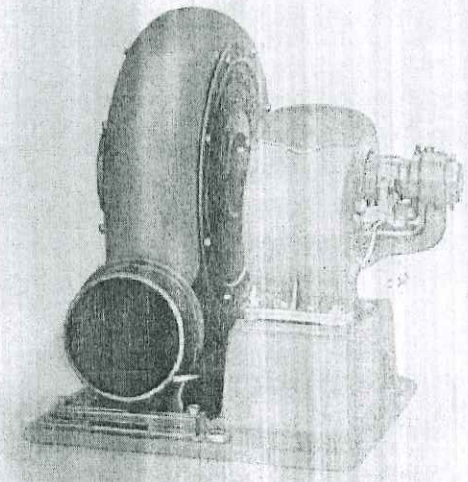
Cat. No.	Diam. Fan	Volts	List Price
23570	12"	115	$26.00
23571	12"	230	28.00
23572	16"	115	34.00
23573	16"	230	36.00

SPEED CONTROLLERS FOR DIRECT CURRENT MOTORS

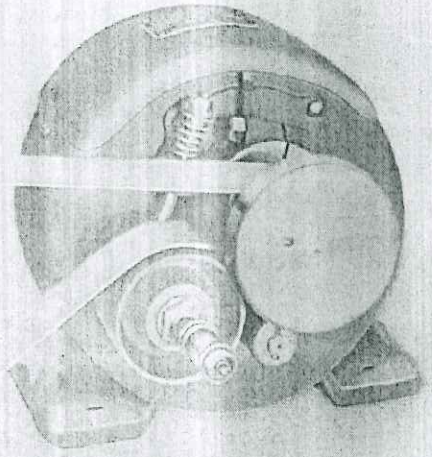
Cat. No.	Diam. Fan	Volts	List Price
28744	12"	115	$4.00
28745	12"	230	4.00
28746	16"	115	4.50
28747	16"	230	4.50

VENTILATING FAN MOTORS

The General Electric Company is prepared to furnish small ventilating fan outfits with either 12-inch or 16-inch fans for direct and alternating current. They are useful in offices, kitchens, dormitories, shops and stores and other places where it is desirable to remove not more than about 3500 cubic feet of free air per minute. These are shipped complete, ready for use, with motor, fan and tripod.

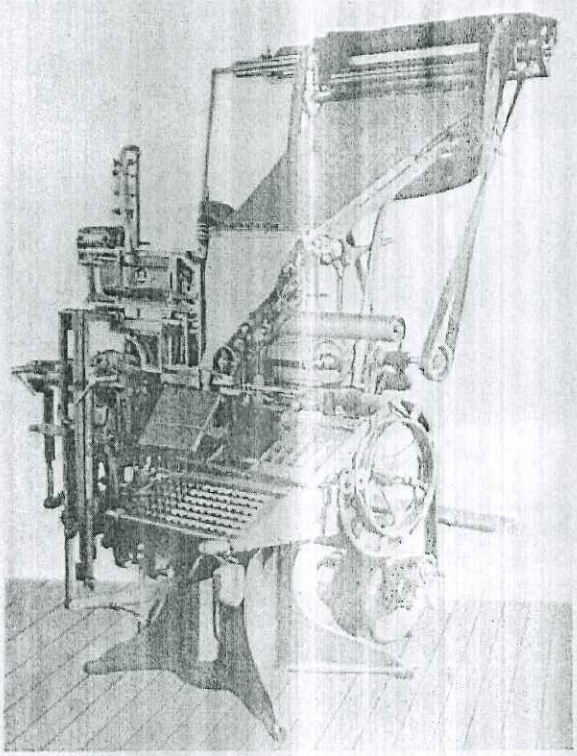


CA Motor, Form A, ¼ H.P.
Driving No. 3 Buffalo Blower



CA Motor with Belt Tightener

GENERAL ELECTRIC COMPANY



Linotype Operated by CA Motor

GENERAL ELECTRIC COMPANY

GENERAL ELECTRIC COMPANY

Sales Offices

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NEW YORK, N. Y., 44 Broad Street
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ATLANTA, GA., Empire Building
New Orleans, La., 1001, 1003, 1005 Hennen Building.
CINCINNATI, OHIO, Perin Bldg., Fifth and Race Streets
Cleveland, Ohio, Citizens Building
Columbus, Ohio, Hayden Building
Nashville, Tenn., Room 22, Cole Building
CHICAGO, ILL., Monadnock Building
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For all CANADIAN Business
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